



Kaleidescape Cinema One

Installation Guide

July 2013

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Section 1

Overview

The Kaleidescape Cinema One Installation Guide describes how to set up and configure Cinema One, and add new components to an existing installation.

The Kaleidescape Cinema One

Cinema One is an all-in-one movie server and movie player that stores and plays up to 100 Blu-ray quality or 600 DVD-quality movies. It is easy to set up, comes with a comprehensive movie guide for special scene selection and lets you download Blu-ray quality movies online (where available). It provides amazing convenience without compromising quality.

Cinema One enables you to:

- ▶ Play Blu-ray discs and DVDs instantly without the delay or distraction of previews, menus or advertisements
- ▶ Store up to 100 Blu-ray or 600 DVD-quality movies for instant access and playback
- ▶ Use the comprehensive Kaleidescape Movie Guide to easily navigate your collection and directly access memorable scenes
- ▶ Download movies from the Kaleidescape Store with precisely the same audio and video fidelity as Blu-ray discs
- ▶ Upgrade your DVDs to Blu-ray quality downloads at the great price of \$6.99 per movie

Cinema One supports easy integration into audio, video and whole-house control systems.

Supported Configurations

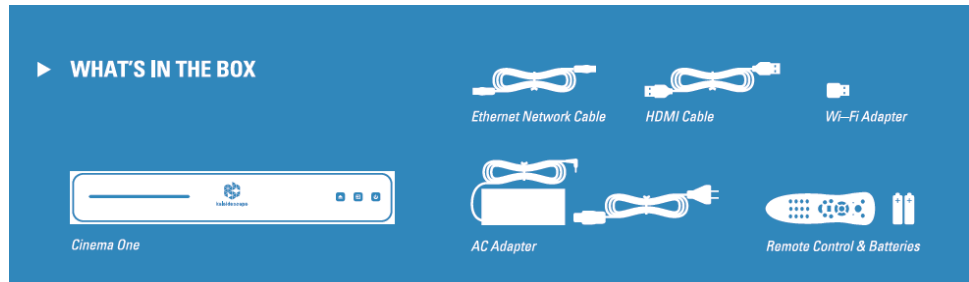
Two Cinema One players can be connected together to enjoy a shared library of content on both players. Both players must have a wired network connection to be linked.

One DV700 Disc Vault can be added to Cinema One system. The disc vault must be connected to your home network using a wired network connection. If connecting a disc vault to one Cinema One player, then the player can be connected over Wi-Fi.

What's in the Box

The following accessories are packaged with each Cinema One:

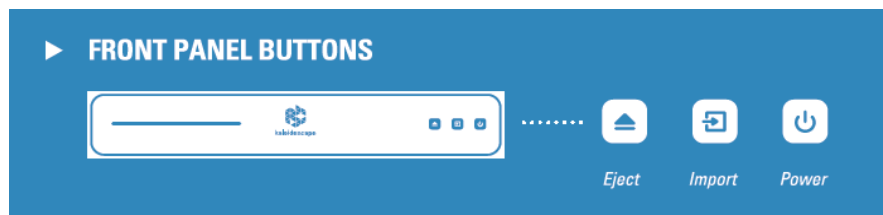
- ▶ 1x Ethernet Network Cable
- ▶ 1x HDMI Cable
- ▶ 1x Wi-Fi Adapter
- ▶ 1x AC Adapter
- ▶ 1x Remote Control
- ▶ 2x Batteries



Front Panel Buttons

There are three buttons located on the front panel of Cinema One:

- ▶ Eject – ejects a disc from the slot
- ▶ Import – imports a Blu-ray disc, DVD or CD
- ▶ Power – turns on or off Cinema One



Front Panel Error Indicators

There are four error indicators located on the front panel of Cinema One. These error indicators light up only in the event of a problem:

- ▶ Temperature – indicates Cinema One is operating too hot or too cold
- ▶ Hard disk – indicates the hard disk drive inside Cinema One has a disk failure
- ▶ Network – indicates that Cinema One has lost network connection or does not have a valid IP address
- ▶ General – when lit up alone, this indicates there was a failure importing a disc.



Section 2

Physical Installation

Planning the Installation

Ventilation and Clearance

Use the following guidelines when installing system components to ensure proper clearance and ventilation. These guidelines apply to all installations including rack mounting.

1. Mount components in a location with adequate ventilation.
2. Check for proper grounding if installing components in a rack.
3. Maintain a 2 in. (5 cm) clearance in back, and a 1 in. (2.5 cm) clearance in front and on the sides.
4. Verify that there is sufficient space for a disc to be ejected from the disc slot.

Power Requirements

Kaleidescape component power supplies are universal input and operate on any nominal line voltage between 100–240 V, and frequency between 50–60 Hz. Verify that power outlets are grounded, preferably shielded from power surges and brownouts.

Kaleidescape recommends a grounded outlet with a high-quality surge protector for the power source for players and servers. A UPS is optional for servers.

System Design

Before beginning the installation, determine the type of the display and audio systems that will connect to Kaleidescape components.

Kaleidescape Systems support combinations of the following outputs:

Video

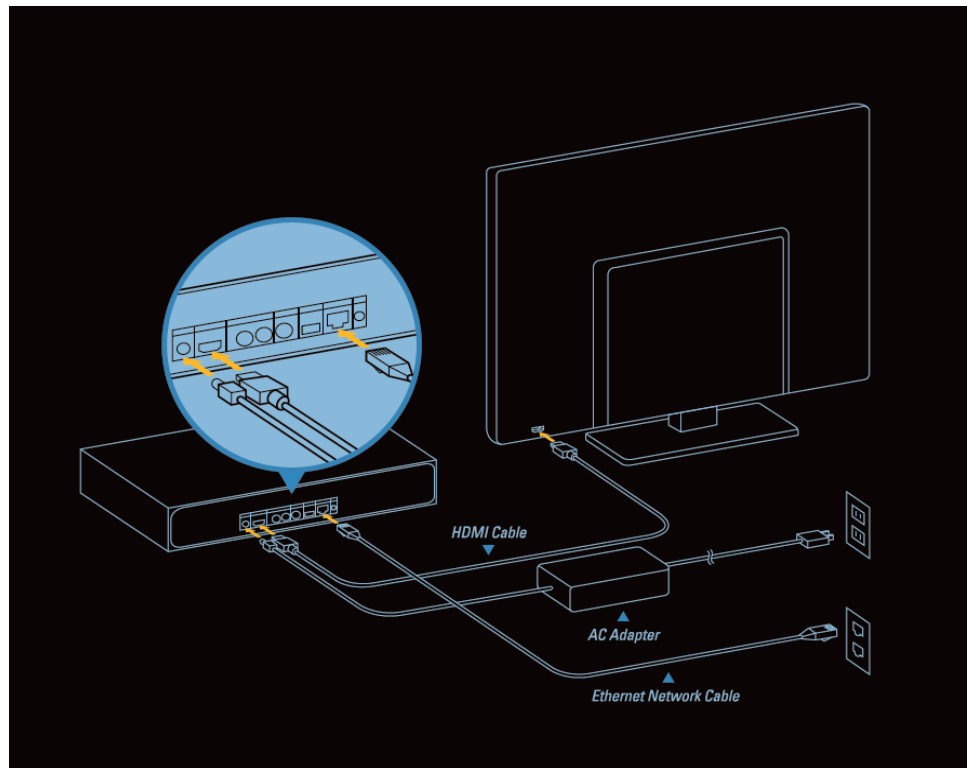
- ▶ High-Definition Multimedia Interface (HDMI)

Audio

- ▶ HDMI (Digital stereo or multi-channel)
- ▶ Coaxial (Digital stereo or multi-channel)
- ▶ Optical (Digital stereo or multi-channel)

A Gigabit network is suggested, and required if there are two Cinema One players and Blu-ray movies are played in more than one room at the same time.

Installing Cinema One



Connect network, audio and video cables. Then connect the AC adapter.

A wired network connection is recommended. Use the included Wi-Fi adapter (not shown above) if a wired connection is not possible.

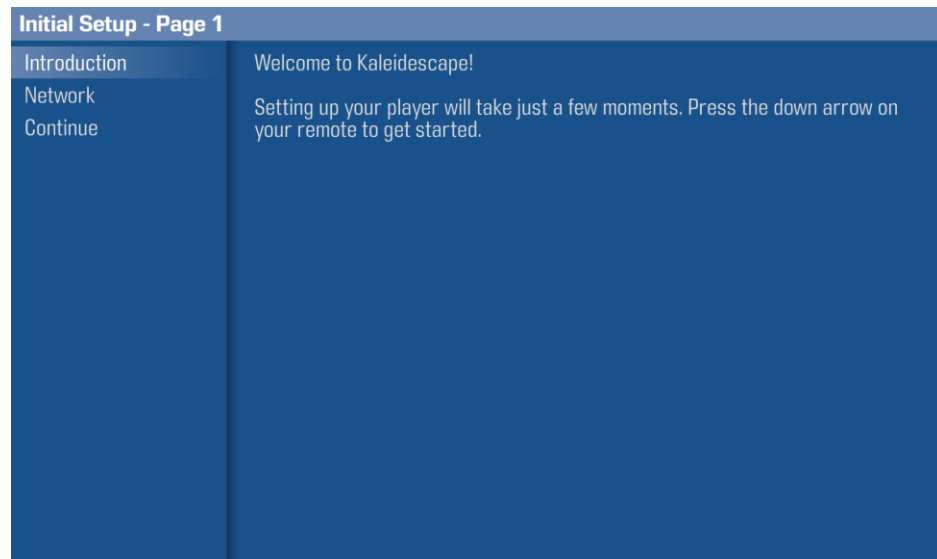
Make sure your television is set to the correct HDMI input, and you are seeing the setup menu.

Section 3

System Configuration

First-Time Setup

After installing your Cinema One, you will be prompted to set it up using your onscreen display. Connecting to your home network (via a wired or wireless network connection) and activating your Cinema One is required.

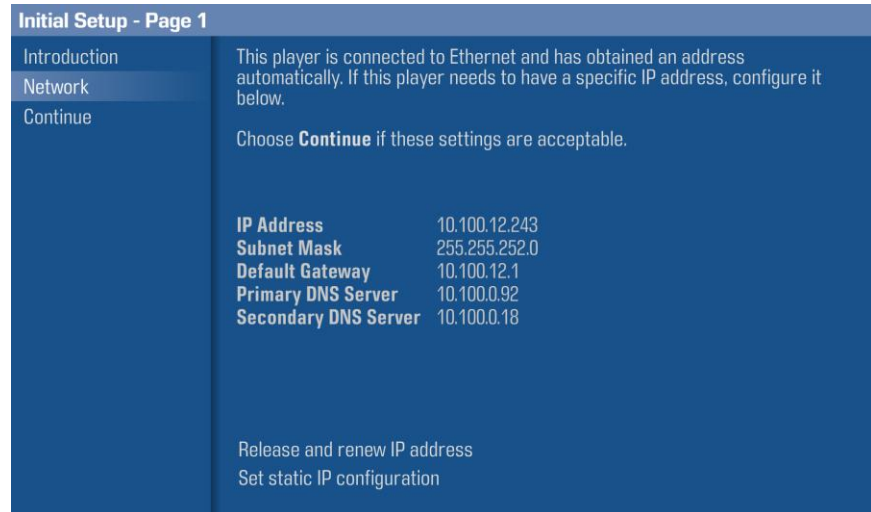


Two Cinema One players can be linked together to combine their storage capacity and content into a single library that can be enjoyed on both players. If a second Cinema One is being added, it can be linked using the **Link Players** page in the onscreen menu.

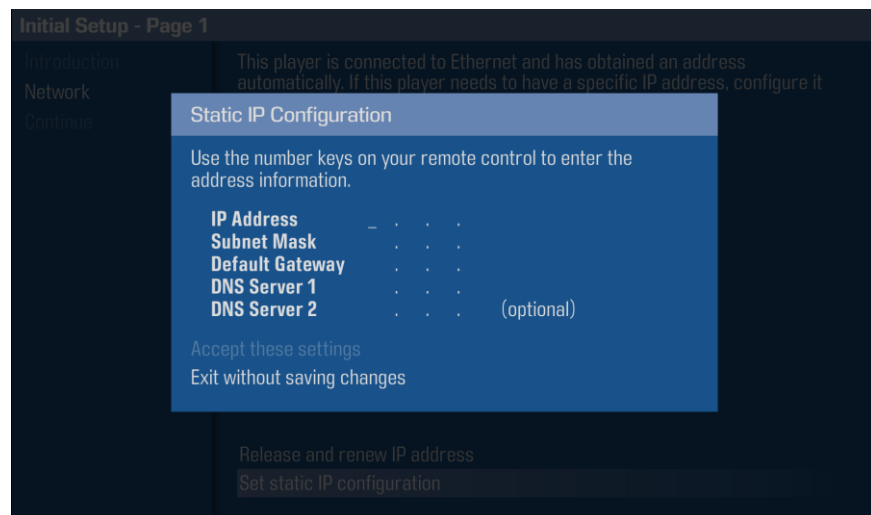
Connecting to your home network

Wired network connection

Select **Network** from the onscreen menu. In most cases, Cinema One will automatically obtain an IP address from a DHCP server.

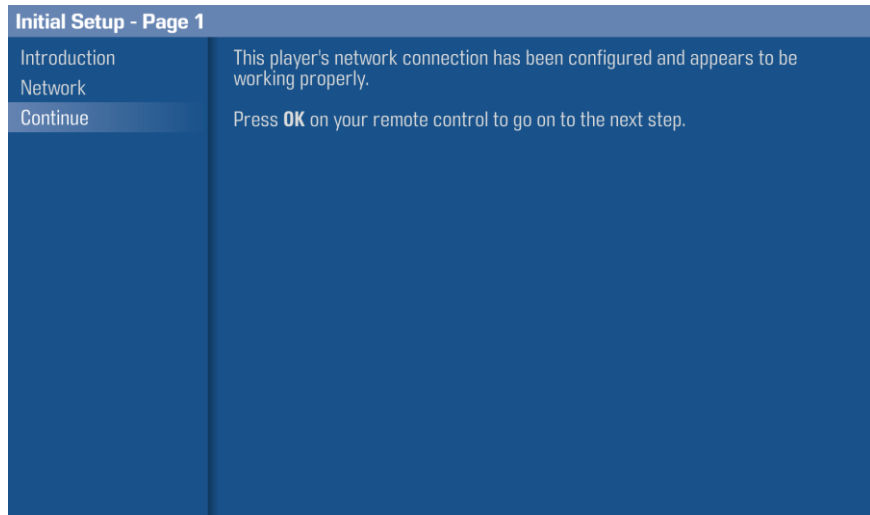


If you wish to set a static IP address, select **Set static IP configuration** and enter your network information.



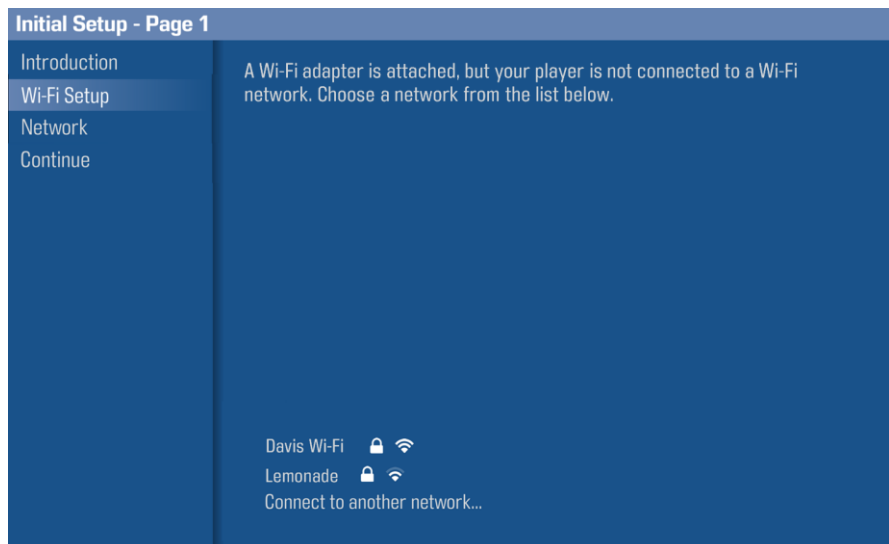
Select **Accept these settings** to save the information entered.

After a valid network connection is set up, the **Continue** option in the onscreen menu will be available. Select **Continue** to proceed to activating your Cinema One.



Wireless network connection

Insert the included Wi-Fi adapter and select **Wi-Fi Setup** from the onscreen menu. A list of available wireless networks will be displayed. Select the one you would like to connect to, and enter the username (if applicable) and password. If your Wi-Fi network is not displayed, select **Connect to another network** to enter its information.

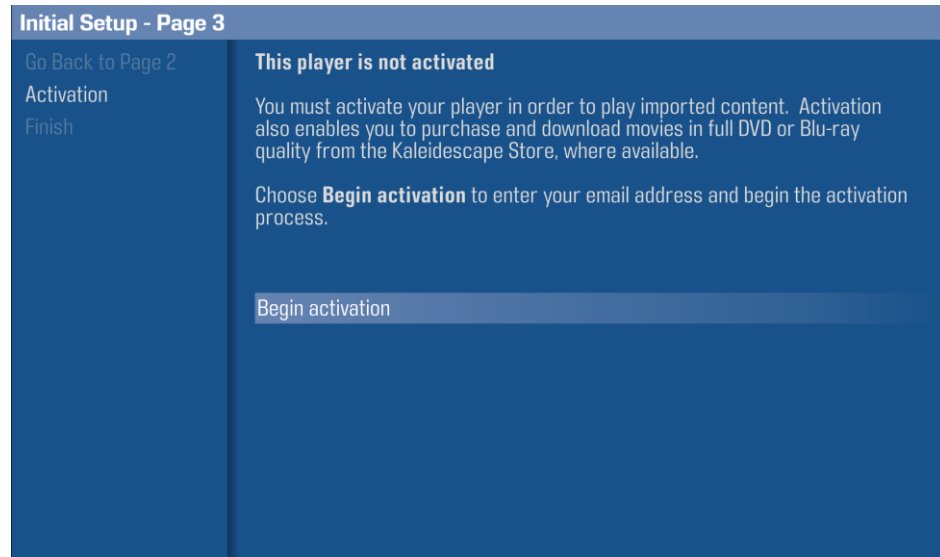


After a valid network connection is established, a checkmark will appear next to the name of the connected Wi-Fi network and the **Continue** option in the onscreen menu will be available. Select **Continue** to proceed to activating your Cinema One.

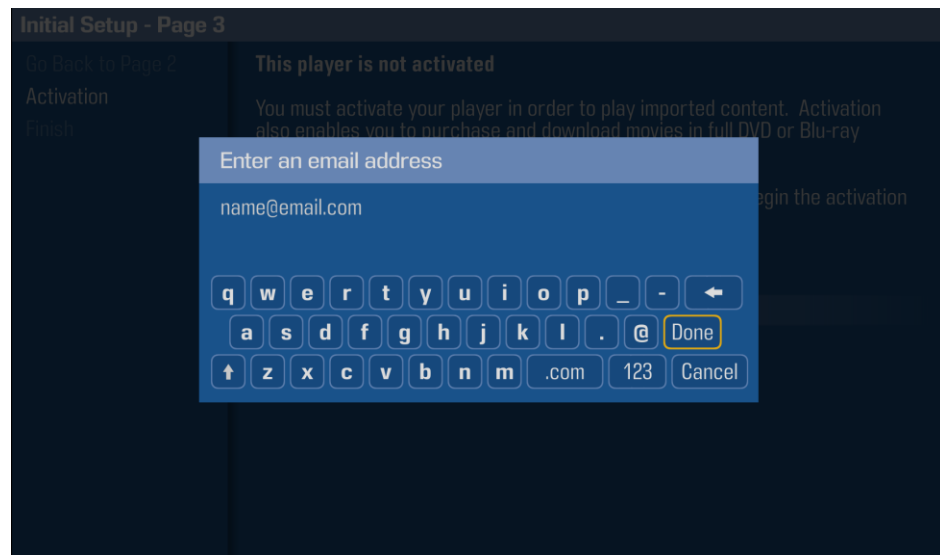
A wireless network connection should only be used if a wired connection is not possible.

Activating your Cinema One

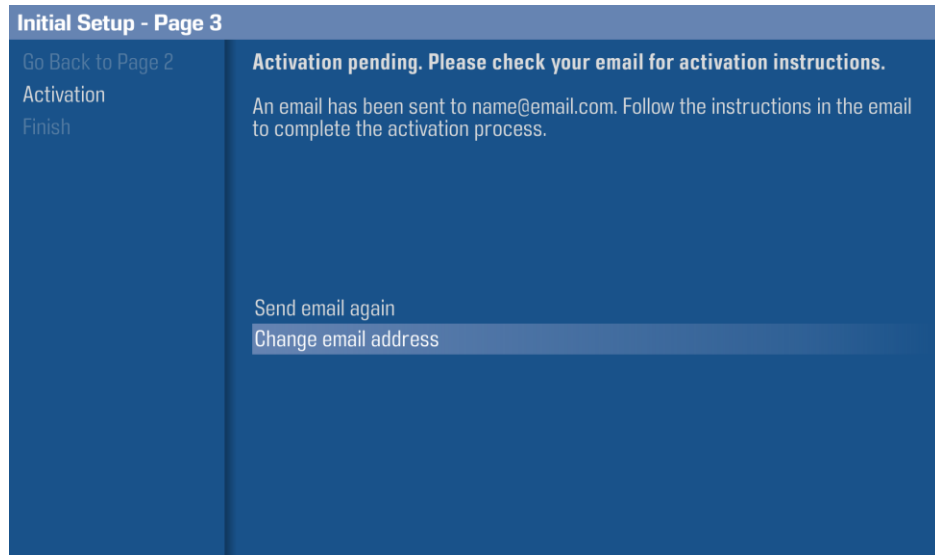
Cinema One must be activated in order to use all its features. To activate your Cinema One, select **Begin Activation** from the **Activation** page on the onscreen display.



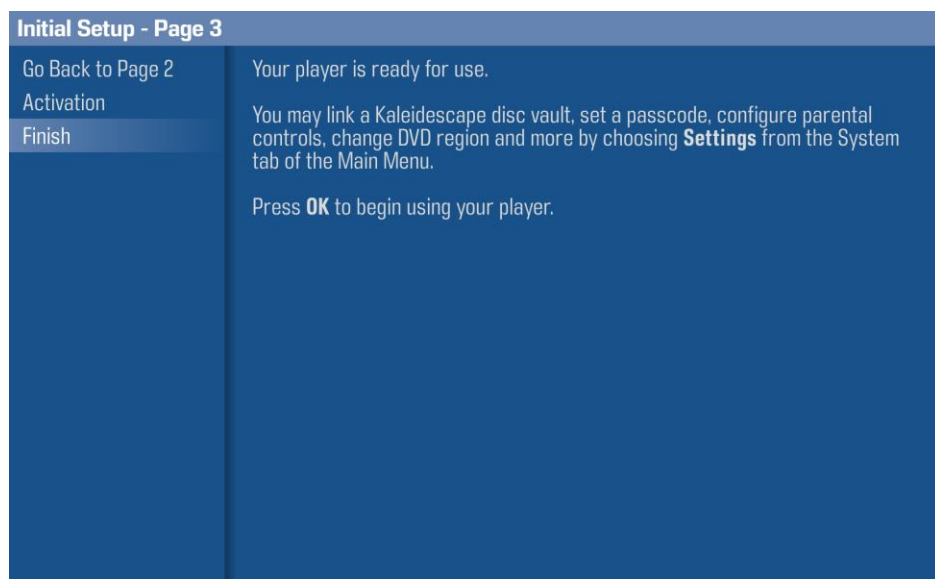
Enter your email address using the onscreen keyboard, and then select **Done** on the keyboard. Check your email for registration instructions.



If the email was not received, select **Send email again** to resend the email, or **Change email address** to send the email to a different email address.



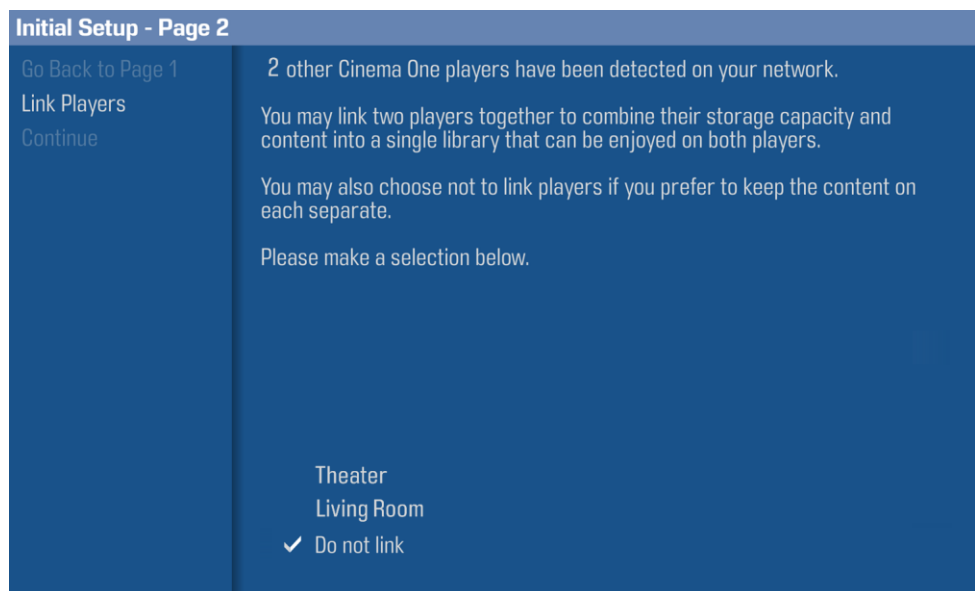
Once the email address has been submitted, the **Finish** option in the onscreen menu will be available. Select **Finish** to exit the initial setup menu and start using your Cinema One.



Linking a second Cinema One

If a second Cinema One is being added, it can be linked using the **Link Players** page. This page will only appear if there is more than one Cinema One detected on the same network. **Both players must have a wired network connection to be linked. Both players must be also be activated to be linked.** Any Cinema One players that are not activated will appear in the list, but will be unavailable for linking.

To link two Cinema One players, configure the first Cinema One by connecting it to your home network and activating it. Then, connect and turn on the second Cinema One. Connect it to your home network using a wired network connection. A Link Players option will be displayed onscreen.

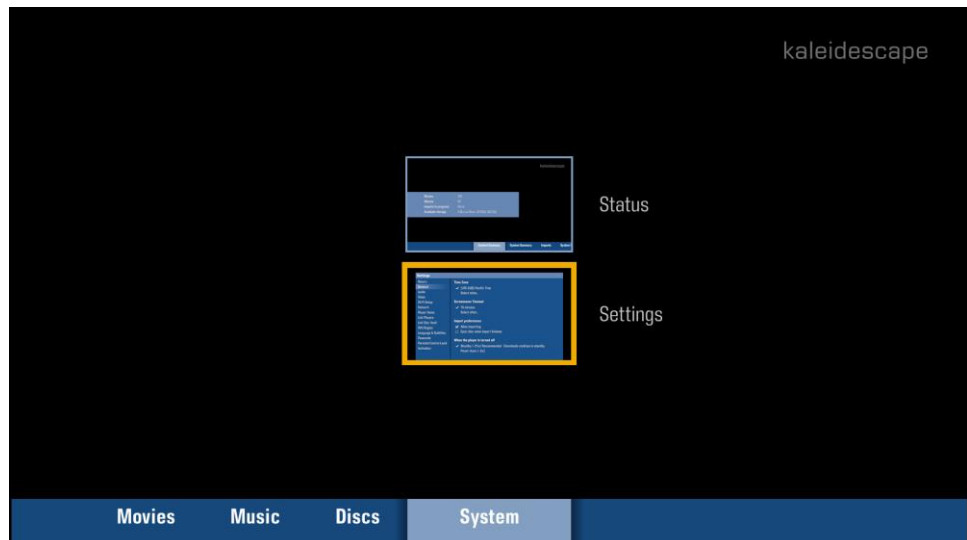


A list of other Cinema One players detected on your home network will be displayed. Select the one you wish you link to. A checkmark will appear next to the one you are linked to.

If you do not wish to link to any players, select **Do not link**. The Select Continue to proceed.

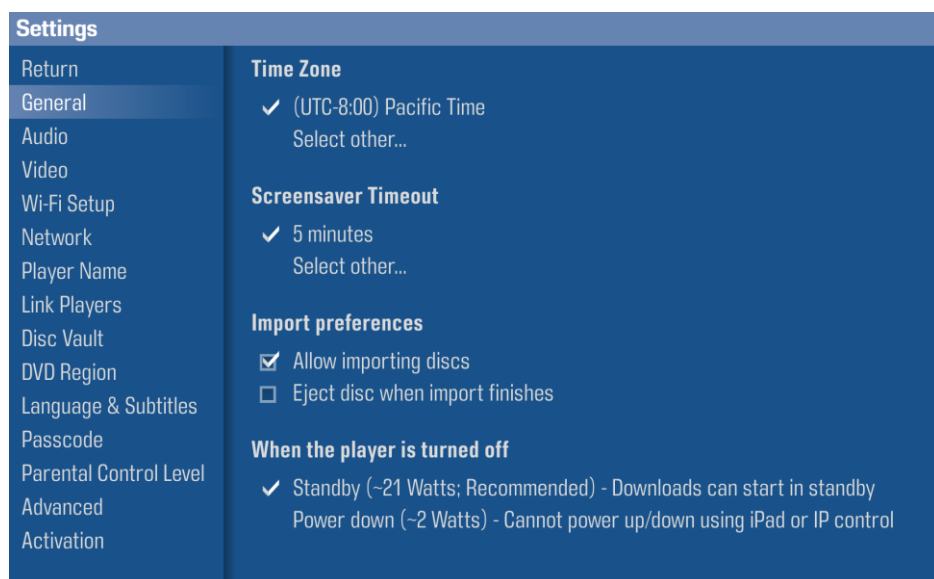
Configuring Settings

Additional settings can be configured using the onscreen Settings menu. To access this menu, press the **MENU** button on your Kaleidescape remote, scroll to the **System** tab, and select **Settings**.



General

General player settings can be configured from the **General** page of the onscreen Settings menu.

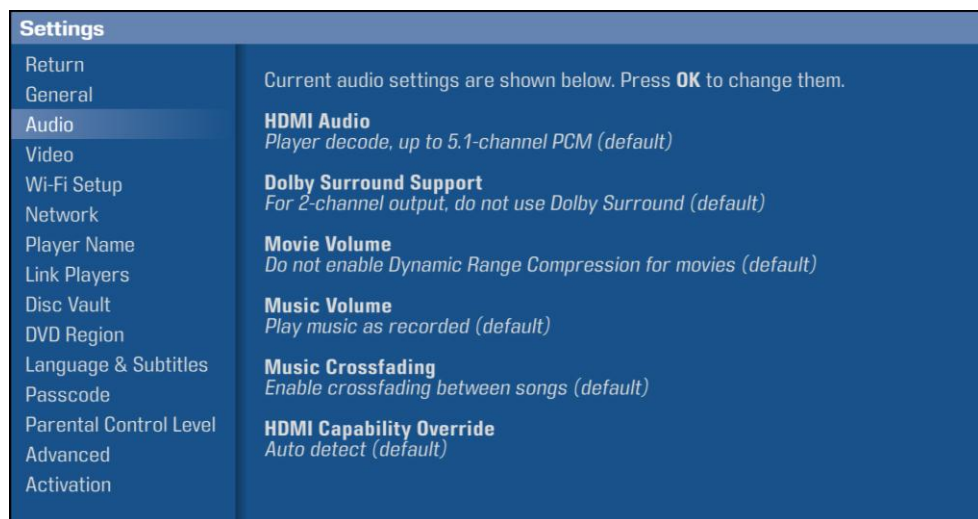


- ▶ Time Zone – select **Select other** to set your local time zone
- ▶ Screensaver Timeout – select **Select other** your preference for how long the onscreen display can be idle before displaying a screensaver
- ▶ Import Preferences

- Allow Importing - select whether you want to allow discs to be imported on this player
- Eject disc when import finishes – select whether you want the disc to be automatically ejected when an import finishes
- ▶ When the player is turned off
 - Standby – select this option to allow downloads from the Kaleidescape Store to continue when the player. This power mode consumes approximately 21 Watts of power.
 - Power down – select this option to completely power down the player. This power mode consumes approximately 2 Watts of power. In power down mode, no power up or down commands can be received using the iPad app or IP control.

Audio

Audio settings for your player can be configured from the **Audio** page of the onscreen Settings menu. A summary of all the audio settings is displayed on the Audio page.

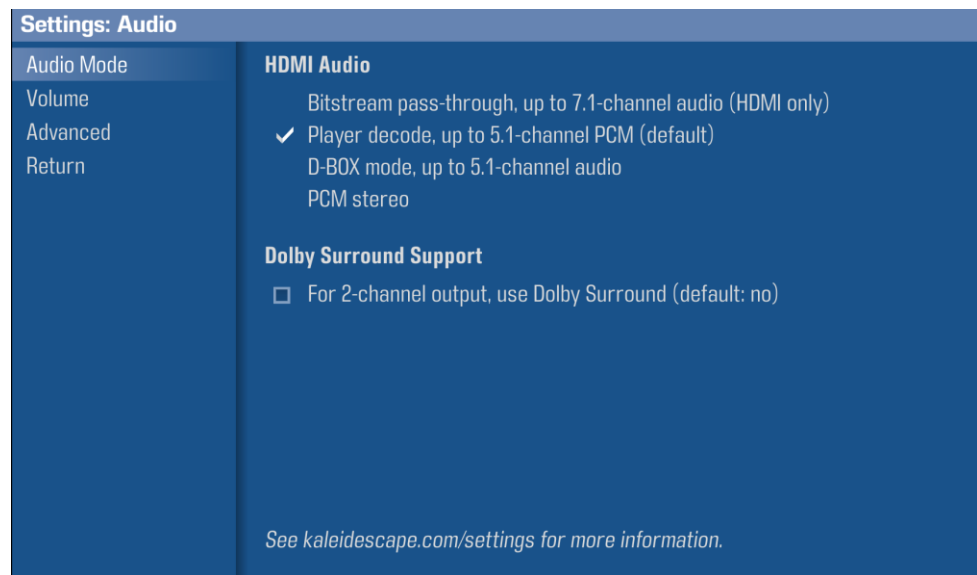


Cinema One can be used to watch DVD and Blu-ray movies with nearly any audio receiver or processor. To hear lossless audio tracks (for example, Dolby TrueHD or DTS-HD Master Audio) from Blu-ray discs without alteration, the A/V receiver or audio processor must be able to decode these formats.

Audio Mode

The audio decode mode affects all other audio settings. The decode mode determines if the player or the receiver decodes the audio. Audio can be

sent as multichannel PCM over HDMI by default, with all outputs enabled, or it can be passed through to HDMI with other outputs disabled.



HDMI AUDIO

Bitstream pass-through

Select bitstream pass-through to send 7.1-channel Blu-ray soundtracks over HDMI at the highest bandwidth possible (up to 192 kHz or 7.1 channels).

The lossless audio formats available on Blu-ray discs, such as Dolby TrueHD, DTS-HD Master Audio and 7.1-channel PCM, exceed the capabilities of analog and coaxial audio outputs. These formats are only available over HDMI, and only when bitstream pass-through is enabled. This setting turns off the analog and coaxial outputs, and picture-in-picture audio cannot be heard.

Player Decode Mode

Select **Player Decode** to hear Blu-ray secondary audio or when coaxial or analog audio outputs are used. This setting sends 48 kHz PCM output over HDMI, up to 5.1 channels depending on content and cabling.

In this mode, the coaxial output passes through the audio bitstream for DVDs, but re-encodes multichannel audio to DTS Digital Surround for Blu-ray discs.

Secondary audio with picture-in-picture

Blu-ray discs support a secondary audio track typically used for interactive audio and commentary. This track is mixed with the main audio so both tracks can be heard at the same time. M-Class players play secondary audio with picture-in-picture when in player decode mode. (To hear unaltered primary audio, bitstream pass-through must be enabled.)

Downmixing

The stereo audio output sends downmixed stereo when playing Blu-ray discs or DVDs.

Dolby Surround Support

Select this option if the output is connected to a sound bar or receiver capable of Dolby Surround / Pro Logic / Pro Logic II decoding.

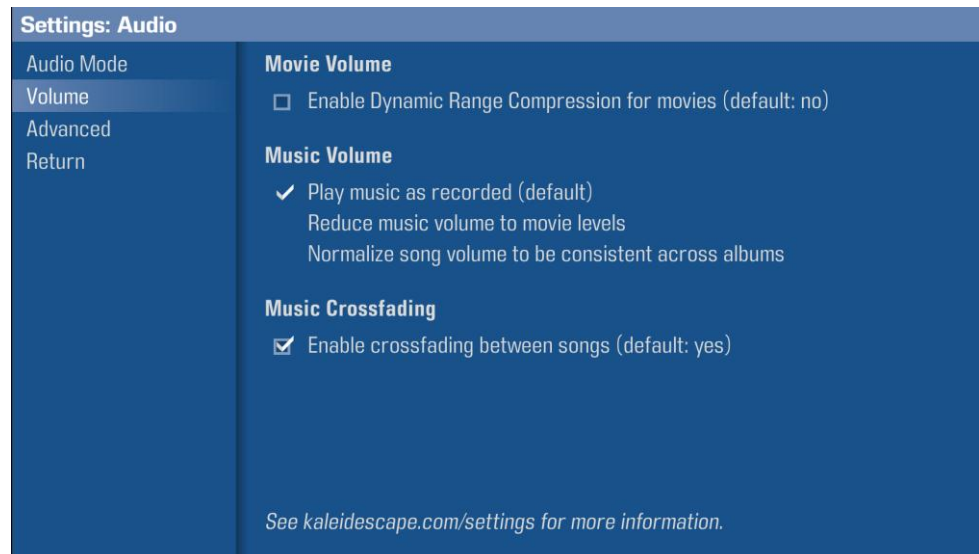
D-BOX mode

Select this option if you have D-BOX equipped seating. Selecting this option will send D-BOX compatible audio up to 5.1 channels over HDMI and coax.

PCM stereo

Select this option to downmix all audio to stereo, as when connecting to two-channel devices like TVs.

Volume



Movie Volume

Select **Enable Dynamic Range Compression** for movies if you want the player to allow information from the audio track to compress the dynamic range, thus reducing the volume of loud sounds or amplifying quiet sounds.

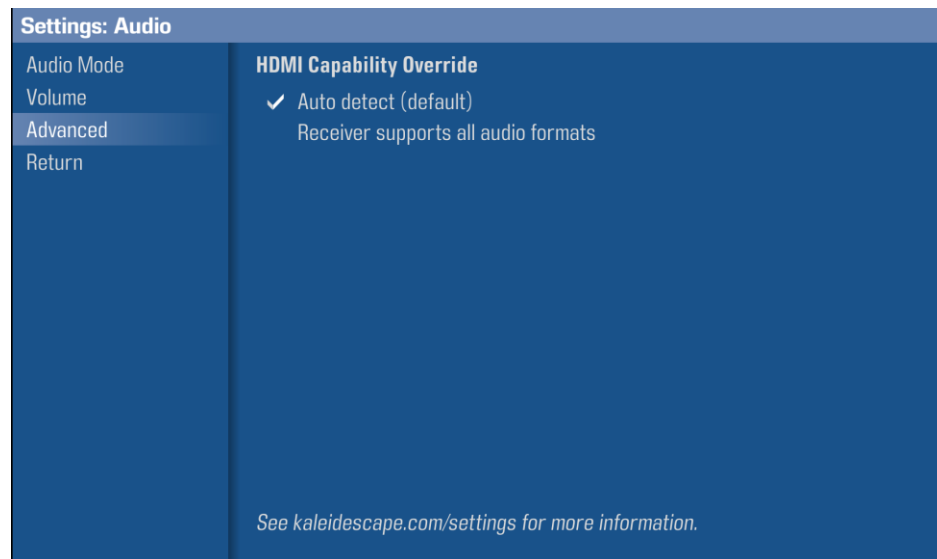
Music Volume

Select your preference for the volume at which music is played.

Music Crossfading

Select whether you would like crossfading between songs when playing mix albums and playlists.

Advanced

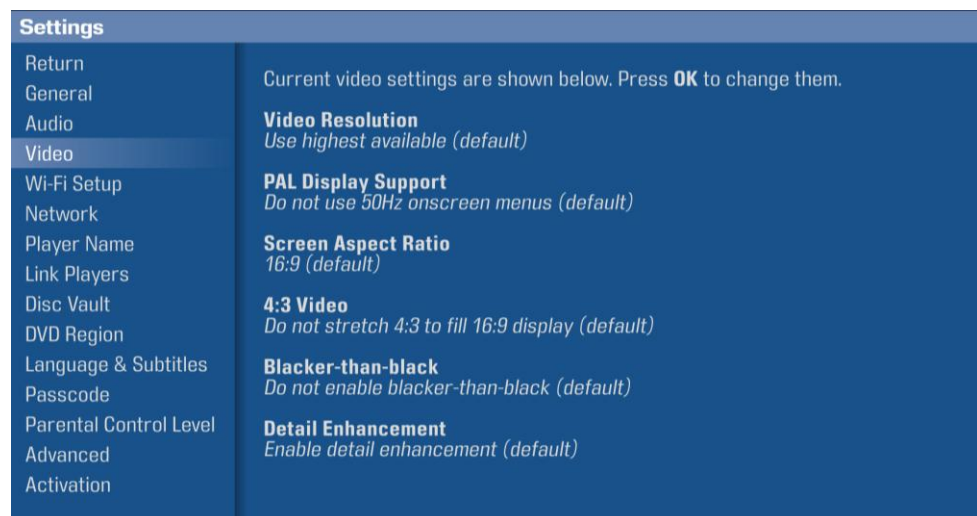


HDMI Capability Override

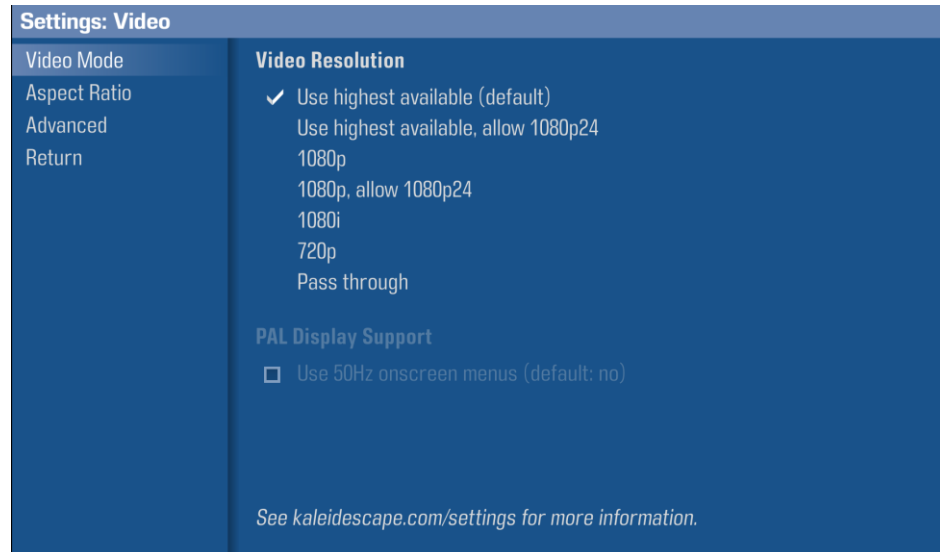
Audio receivers connected via HDMI automatically provide information via EDID used to determine the audio formats sent by the player to the receiver. Selecting **Auto detect** will automatically detect the receivers capabilities and should provide the best results. In rare cases, these capabilities must be overridden because of an EDID that is inaccurate or has been corrupted by an HDMI extender or switcher. Select **Receiver supports all audio formats** if you are sure your receiver supports all audio formats.

Video

Video settings for your player can be configured from the **Video** page of the onscreen Settings menu. A summary of all the video setting is displayed on the Video page.



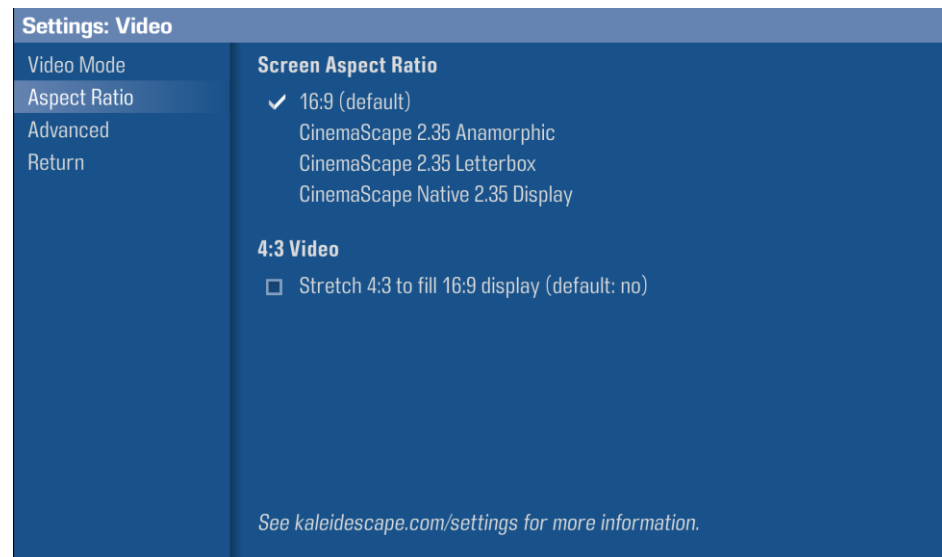
Video Mode



Video Resolution

Select your preferred video resolution.

Aspect Ratio



Screen Aspect Ratio

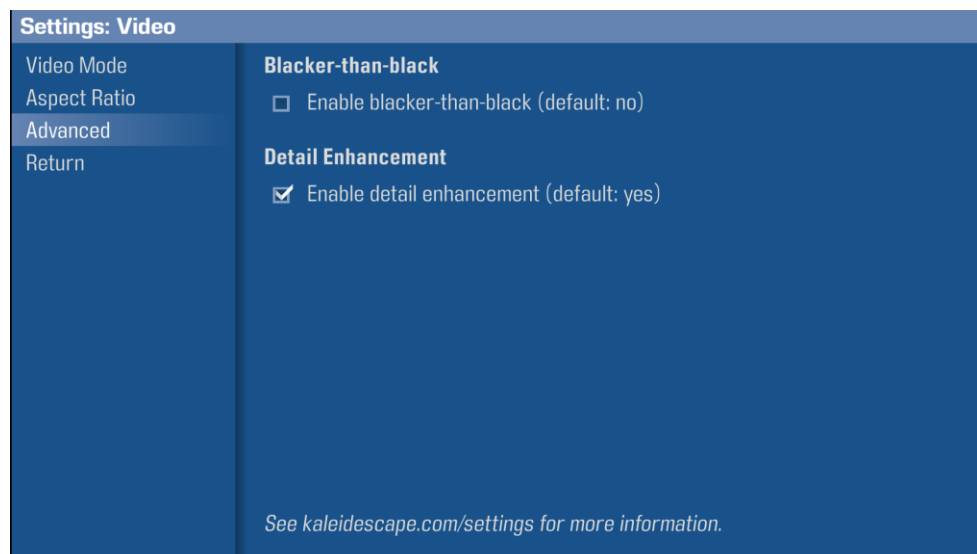
Select the aspect ratio for your video display. CinemaScope is an aspect ratio designed for 2:35:1 projectors and displays. Select the mode that best suits the zoom mode or anamorphic lens configuration of your 2:35:1 equipment. More information:

[CinemaScope](#)

4:3 Video

Configure how full screen 4:3 movies will appear on a 16:9 display. Stretching causes the image to fill the display screen but will distort 4:3 images.

Advanced



Blacker-than-black

This player can output the full luma range. This setting is intended only for use during calibration, as it will cause additional video mode changes and cause some disc menu and subtitle features to display incorrectly. After calibration, disable blacker-than-black.

Detail Enhancement

Configure detail enhancement for HDMI Video to influence how sharp the edges of scaled video appear.

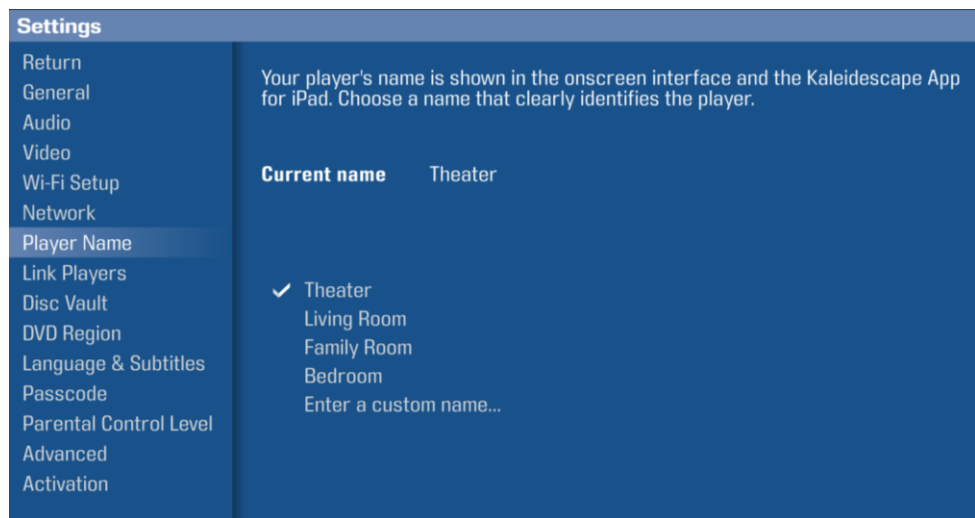
Network

See pages 10 – 11.

Player Name

The default name for your player is Cinema One. This name is displayed in the Kaleidescape App for iPad, and can be changed help distinguish between players in different rooms of the house. For example, if you have two Cinema One players in your house, you can name one Living Room and one Master Bedroom.

Some suggestions for names are available in the **Player Name** page of the onscreen display, or you can select **Enter a custom name** to give your player a unique name.



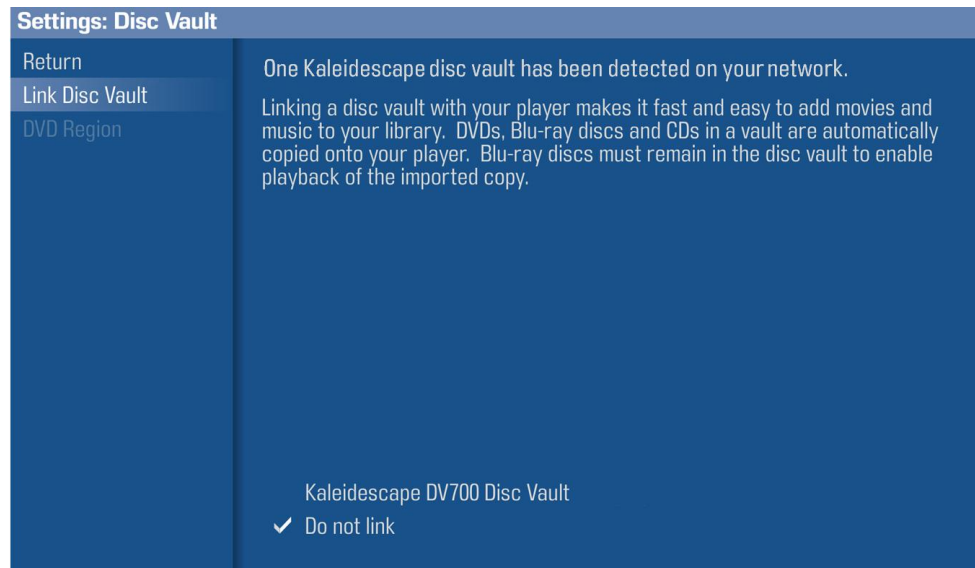
Link Players

See page 14.

Disc Vault

Linking a disc vault with your player makes it fast and easy to add movies and music to your library. DVDs, Blu-ray discs, and CDs in a vault are automatically copied onto your player. Blu-ray discs must remain in the vault to enable playback of the imported copy.

To link a vault to your player, Press OK on the Disc Vault page, and a list of vaults detected on your home network will be displayed.



Select the vault you wish to link. A checkmark will appear next to the name of the vault you are connected to.

If you do not want to link a vault, select Return from the menu on the left.

Setting the DVD Region of the Disc Vault

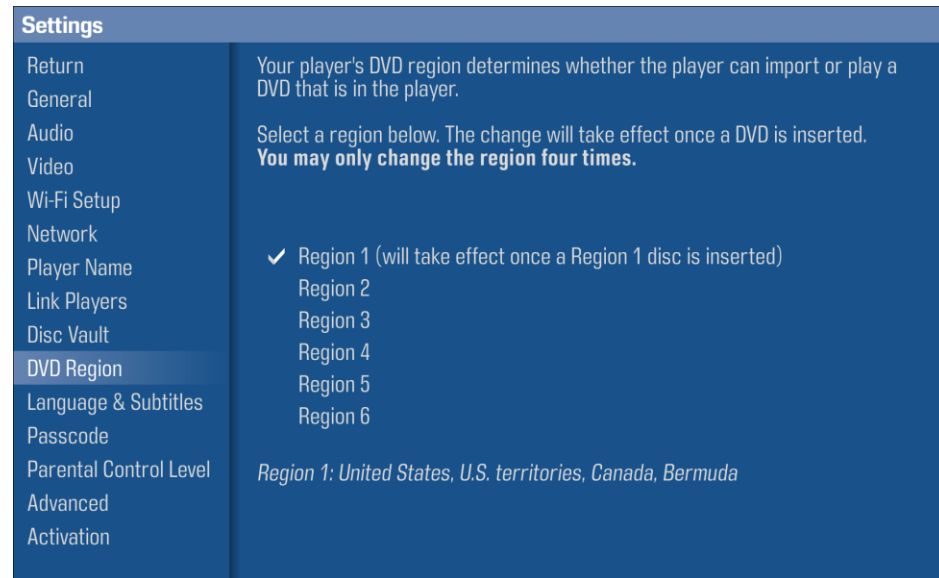
The DVD region of a linked disc vault can be set from the **DVD Region** page. Most DVDs are authored for a specific region. Your player's DVD region determines whether the player can import the DVDs in the vault. Any player can play a movie from the server once it has been imported, regardless of the **DVD region** code.

The current DVD region of the vault is displayed with a checkmark next to it in the **DVD Region** page.

DVD Region

Most DVDs are authored for a specific region. Your player's DVD region determines whether the player can import or play the disc in the player. Any player can play a movie from the server once it has been imported, regardless of the DVD region code.

The current DVD region of the player is displayed with a checkmark next to it in the **DVD Region** page of the onscreen **Settings** menu.



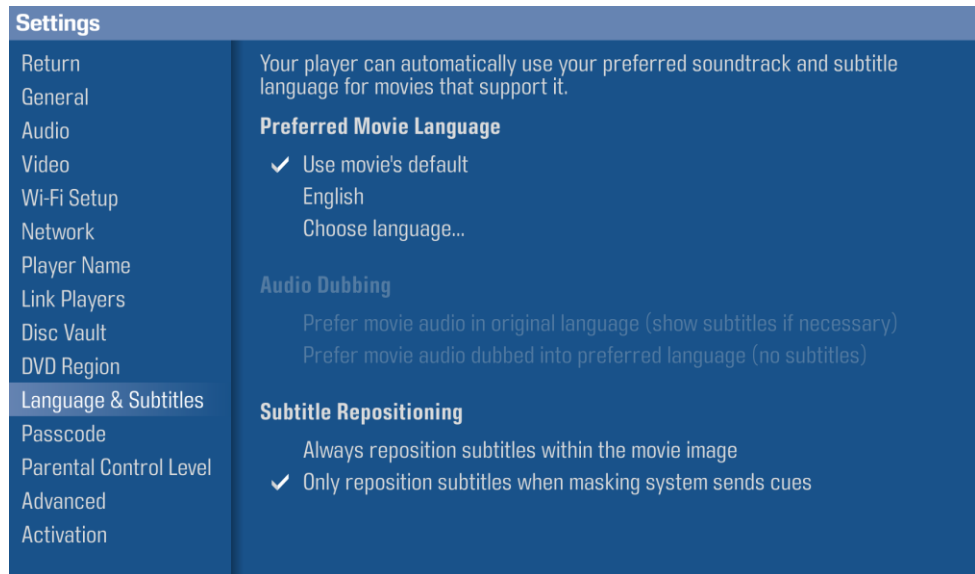
To change the DVD region of a player, select the region you want to set it. The region setting will be applied when a disc of that region is inserted in to the player.

The DVD region of a player can be changed up to four times.

Different players linked together can be set to different DVD region codes.

Language & Subtitles

A preferred language for movie playback can be configured for each player using the **Language & Subtitles** page of the onscreen **Settings** menu. If a DVD or Blu-ray disc has an audio or subtitle track for the language you select, the settings below will automatically play the movie or display subtitles in your preferred language.



Preferred Movie Language – choose your preferred audio language for movies. If an audio track or subtitle file is available in that language, the movie will either play audio or display subtitles in that language, depending on your selected preference in the Audio Dubbing section. Select **Choose language** and then enter the first three characters of your preferred language. Leaving the settings as **None** will play the default audio track of the disc.

Audio Dubbing

Once you select a preferred movie language, you can select whether you would prefer to hear the movie audio in its original language and show subtitles in your preferred language, or whether you would prefer to hear the movie audio dubbed in your preferred language.

Subtitle Repositioning

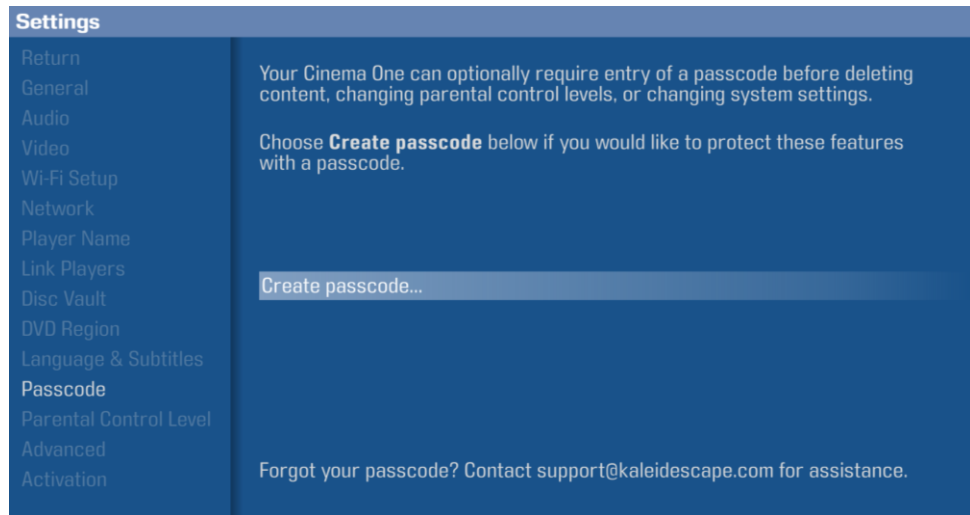
Select whether you want the subtitles to be displayed within the movie image or if you have a control system that sends masking cues, you can select to reposition the subtitles when these cues are sent.

Selecting **Always reposition subtitles within the movie image** causes the player to position subtitles within the movie image so that they can be seen and read even if part of the screen is covered by masking or cropped by a lens. Select

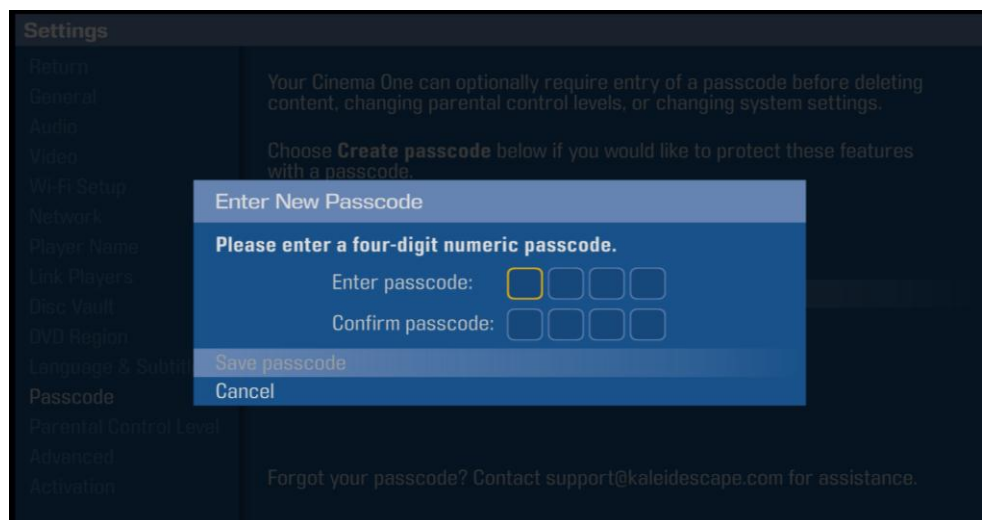
Select **Only reposition subtitles when masking system sends cues** if the screen masking system is designed to leave room for subtitles at the bottom of the screen. Subtitles appear in the original position, which can place them below the movie image. Display elements continue to be placed within the movie image.

Passcode

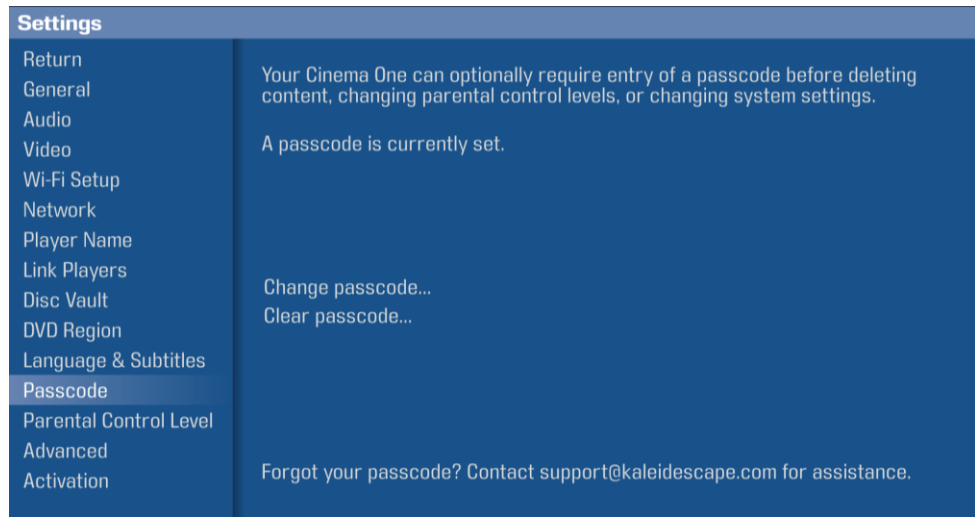
A passcode can be set to protect certain operations on your player. If a passcode is set, it will be required when deleting content from your player, unregistering your player, adding or removing components to your player, or to display movies of a rating higher than the currently permitted rating.



Select **Create passcode** from the **Passcode** page of the onscreen Settings menu. Then enter a four digit numeric passcode.



If you know your current passcode and want to change it, select **Change passcode** . If you know your current passcode and no longer want to have a passcode, select **Clear passcode** to remove the passcode from your player.

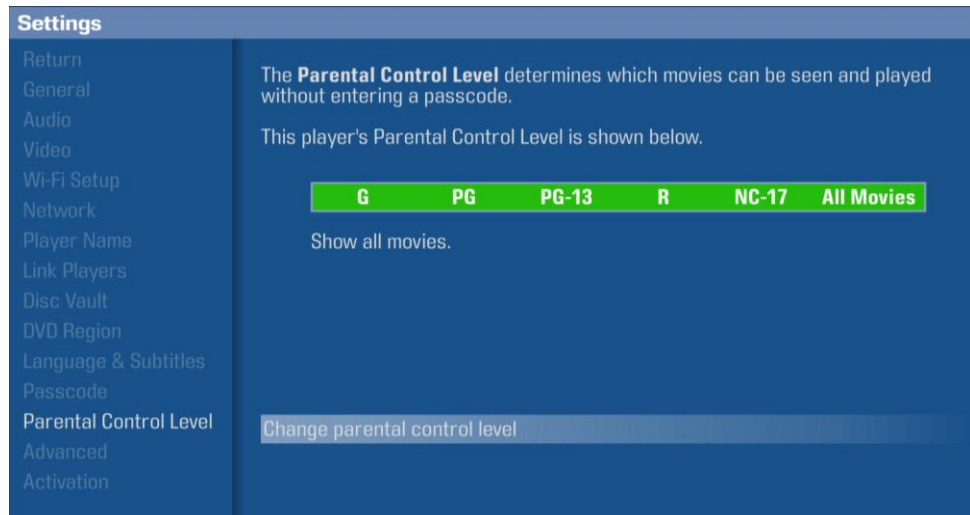


If you do not know your current passcode, please contact support@kaleidescape.com for assistance in resetting your passcode.

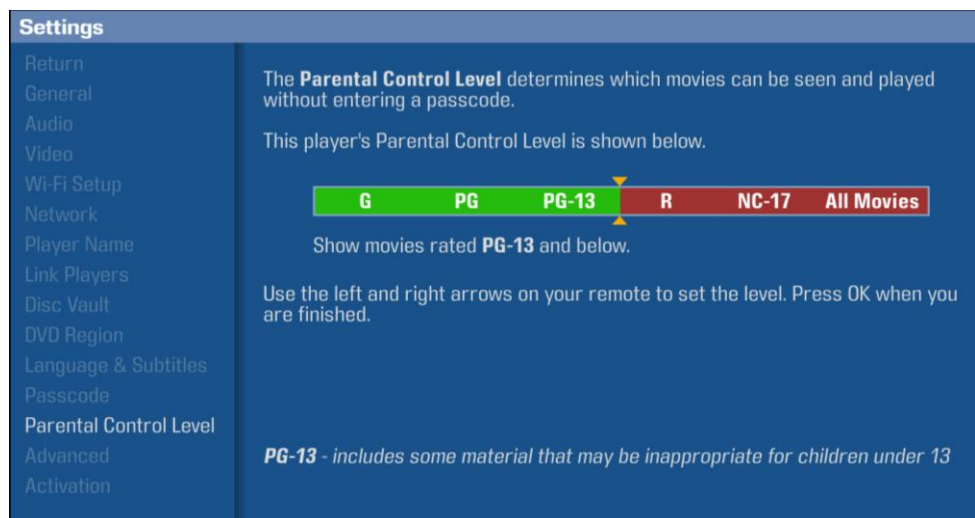
If you have two Cinema One players, they will both have the same passcode.

Parental Control Level

The default parental control level of your player is set to display All Movies. This can be changed to a level more restrictive. The parental control level determines which movies are displayed on your onscreen without entering your passcode.

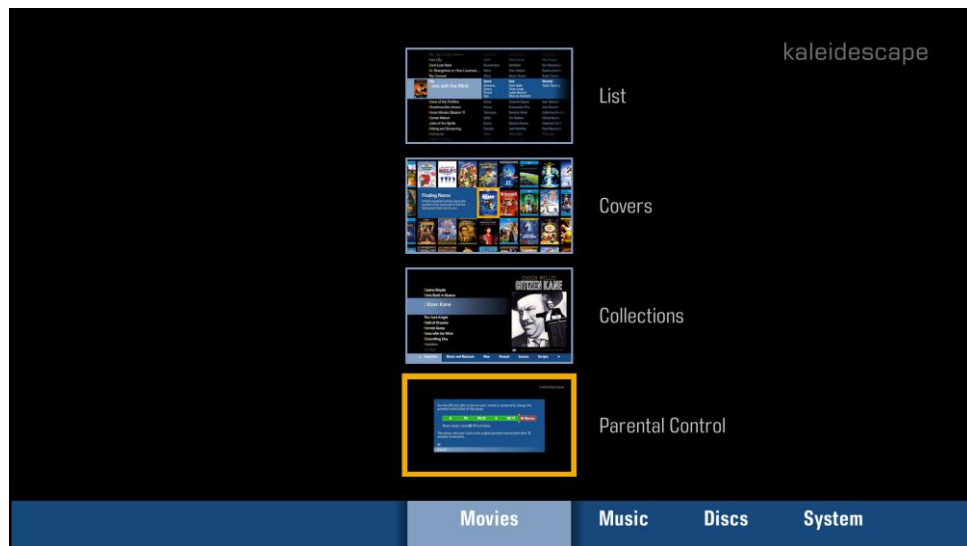


Select **Change parental control level** on the Parental Control Level page of the onscreen Settings menu to change the default parental control level of your player. Use the left and right navigation arrows on your remote to set the new default parental control level. A description of each rating is displayed at the bottom of the page. Press OK when you are finished to confirm the change.

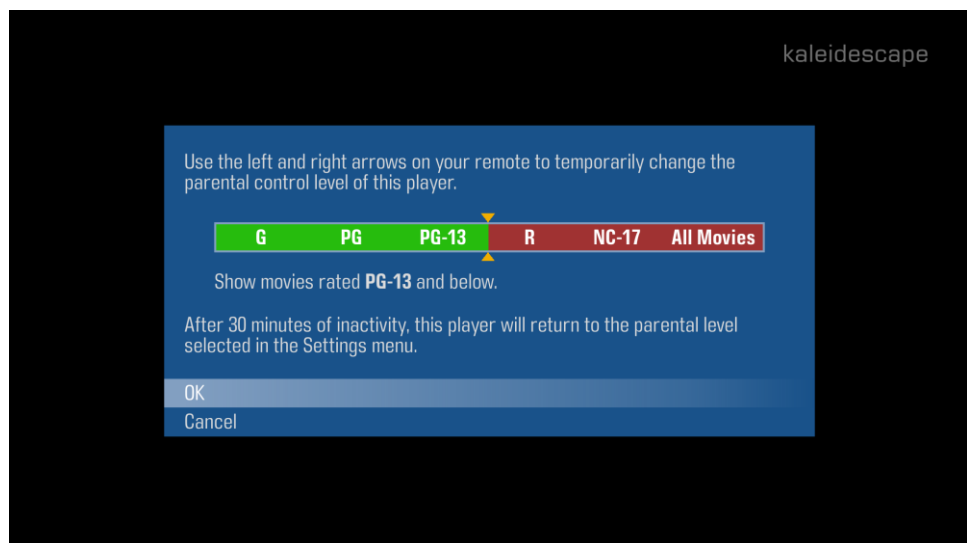


Temporarily changing the parental control level

There may be occasions where temporarily changing the parental control level is desired. This can be done from the Parental Control menu in the Movies tab of the main menu. (Press the menu button on your remote control. Then select the Parental Control menu in the Movies tab.)

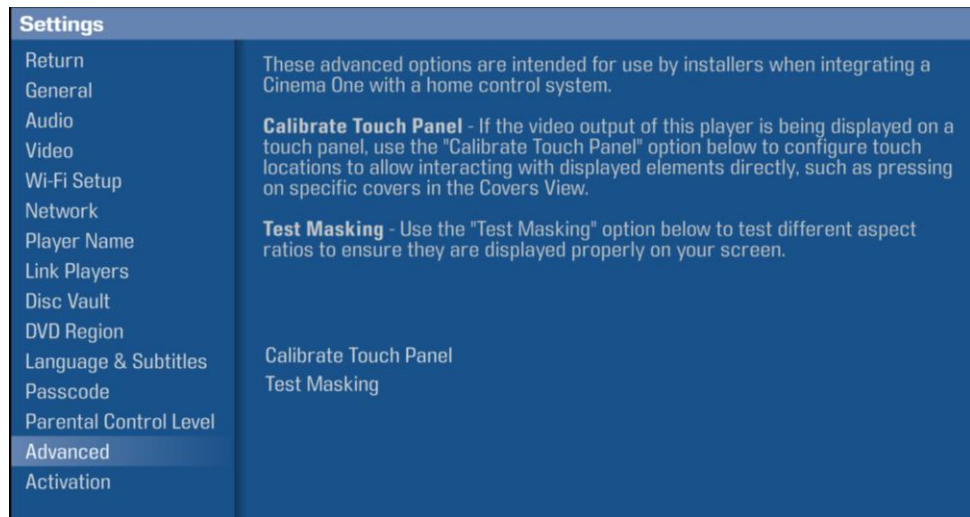


Any changes to parental controls made from this menu are temporary. The player will revert back to its default level after 30 minutes of inactivity.



Advanced

The Advanced page of the onscreen Settings menu can be used by installers when integrating this player with a home control system.



There are two options available in this page:

Calibrate Touch Panel – If the video output of this player is being displayed on a touch panel, use the **Calibrate Touch Panel** option to configure touch locations to allow interacting with displayed elements directly, such as pressing on specific covers in the Covers View. Follow the instructions onscreen.

Test Masking – Use the **Test Masking** option to test different aspect ratios to ensure they are displayed properly on your screen.

Section 4

Control Systems

The Kaleidescape Cinema One support's almost any control device.

- ▶ Infrared (IR) remotes
- ▶ Touch panels
- ▶ One-way keypads
- ▶ iPhone or iPod software applications

Kaleidescape provides control modules along with touch panel templates and sample programs for most leading control systems. Kaleidescape also provides databases and IR codes for popular IR remotes.

For specific product support including modules and reference manuals, go to www.kaleidescape.com/support/control-systems.

The following figures show examples of typical setups for the Kaleidescape Cinema One and control devices.

Communication

A control device can communicate with the Kaleidescape Cinema One using a simple text-based protocol over Ethernet, or with IR.

For more information on control connections, refer to the *Kaleidescape System Control Protocol Reference Manual* at www.kaleidescape.com/go/control-protocol and the IR Hex codes at www.kaleidescape.com/go/ir-hex.

Types of Control Devices

Kaleidescape provides a wide range of templates, modules, and sample programs for control systems from several manufacturers.

Some manufacturers also provide templates, modules and IR libraries to control Kaleidescape movie servers.

Control devices can be simple IR remotes or touch panels.

IR Remote Control

The simplest control device is a generic IR remote control for a DVD player.

Every Cinema One comes with a Kaleidescape Remote. Insert the batteries that come with the remote; the remote does not have to be programmed.

IR Code Sets

The Kaleidescape movie player supports two major infrared remote control code sets:

- ▶ Code set used by Toshiba DVD players and other manufacturers including Philips, Magnavox, Zenith, Onkyo, and Marantz
- ▶ Code set used by Kenwood DVD players

Types of Remotes

IR remotes (other than the Kaleidescape Remote) fall into the following basic categories:

- ▶ Pre-programmed
- ▶ Learning
- ▶ PC Programmable

Pre-programmed Remotes

Pre-programmed remotes only require setting the remote to control a Toshiba or Kenwood DVD player. Custom buttons that jump directly to Kaleidescape menu selections are not available.

Learning Remotes

Learning remotes can be used two ways: as a general remote with a Toshiba or Kenwood code set, or set to accept (learn) Kaleidescape-specific commands from a device that can generate these commands (for example, the Kaleidescape Remote).

PC Programmable Remotes

PC Programmable remotes can support commands specific to the Kaleidescape interface and provide a more complete experience. The manufacturer provides software that allows the remote to be programmed via a computer. This type of programming often allows IR codes to be imported in hex format (usually copying and pasting the codes into a text box), or from a Philips CCF file.

For a list of all IR codes (in hex) or CCF format available from Kaleidescape, or for the CCF file, go to www.kaleidescape.com/go/ir.

Templates are available for download for RTI, URC, and Elan remotes. Kaleidescape is also included in IR code database libraries for URC, Logitech Harmony and Opus.

The Kaleidescape App for iPad

Take control of your movies with the Kaleidescape App for iPad, which provides an immersive experience for browsing and searching your collection of movies and music. Select a movie, scene, song or episode, and it starts playing

instantly on your TV. Browse your music library, select albums to play, create playlists and mix albums, and read about your favorite movies, albums and artists on the iPad. Download it for free from the App Store.

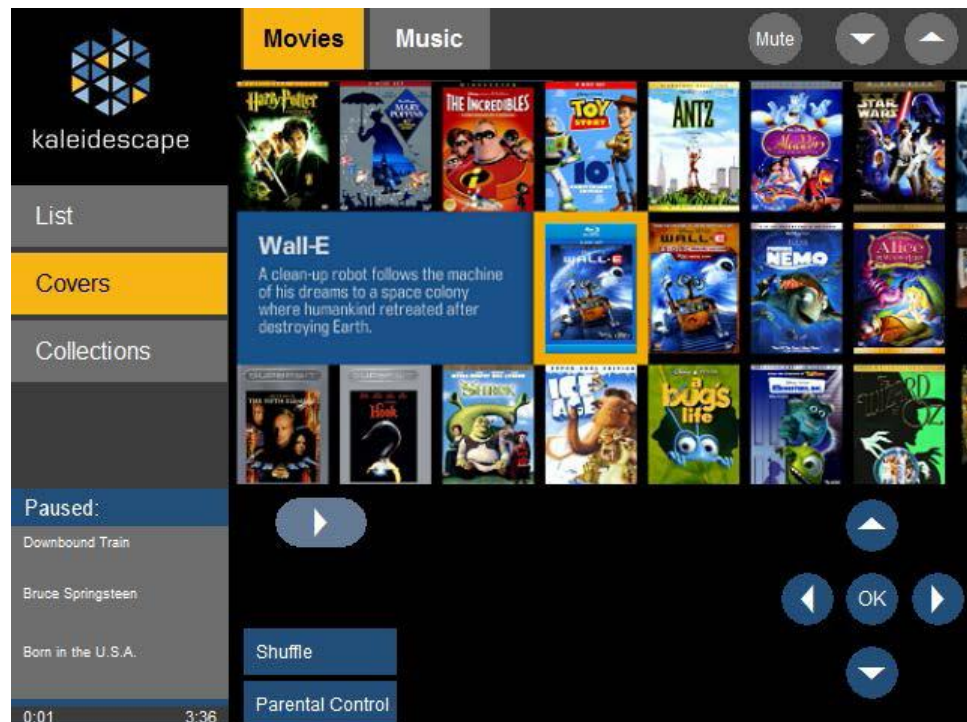
Touch Panels

Kaleidescape supports several variations of touch panel control.

- ▶ Onscreen Display with Video
- ▶ Onscreen Display without Video
- ▶ Standalone music control interface for music zones

Onscreen Display with Video

Onscreen Display with Video (OSD Video) displays the Kaleidescape onscreen display on the touch panel, along with other controls, by using a video window on the touch panel. Touching the video display makes selections or navigates menus. OSD Video provides the richest user experience and is the implementation suggested by Kaleidescape whenever possible.



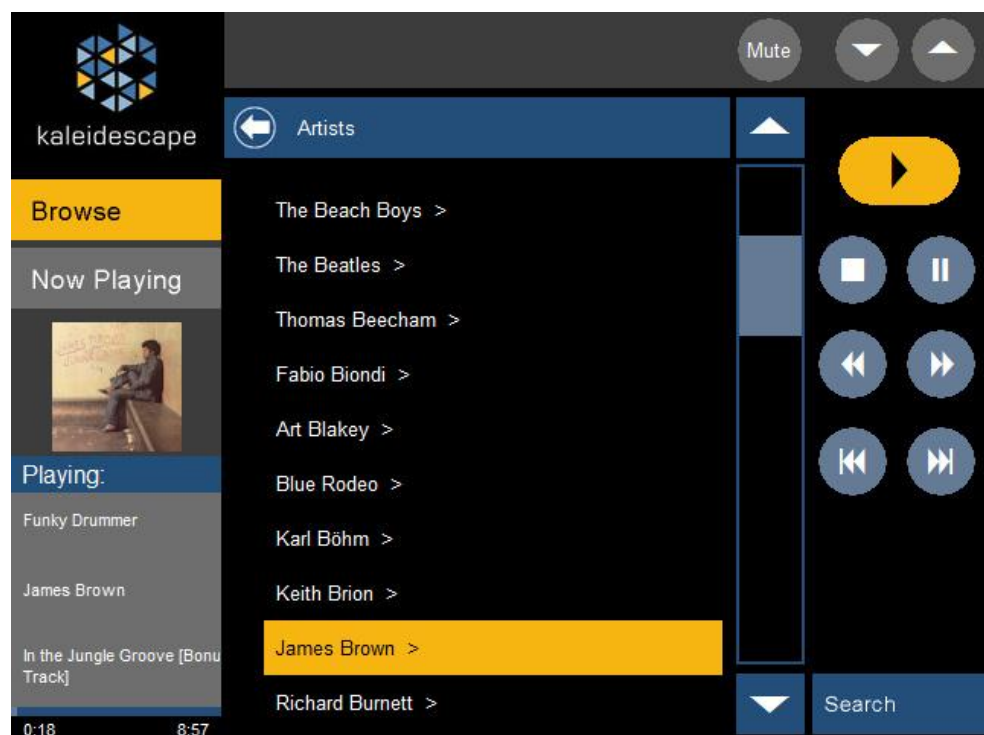
Onscreen Display without Video

Onscreen Display without Video (OSD No Video) provides supplemental information with text-based details for content. The touch panel replicates the details pages for movies or albums while browsing the onscreen display.



Standalone Control for Music Zones

The standalone music control interface for music zones provides text-based music controls on touch panels in rooms without video displays (e.g., hallways). A user can browse and control music playback. See Figure 5-9.



When selecting the touch screen for an installation, consider whether a video display is present and the technical capabilities of the touch panel. Installations can require more than one type of touch panel interface to provide the best control for every zone.

For more information, go to

<http://www.kaleidescape.com/support/control-systems>.

Keypad Control for Music

In-wall keypads are convenient for music zones that have no video display and no touch panel. There are two types of keypad control.

Keypad presets

With keypad presets, a keypad can be programmed to play a music selection. Presets can be set to behave like car radio buttons. Press and hold to store, then press to recall.

Music collections

With music collections, a keypad can be programmed so users can cycle through music selections within a music collection. This interface enables cycling through any collection by using the **NEXT** and **PREVIOUS** buttons.

An installer can program a keypad to control music on a Kaleidescape Cinema One as long as the keypad can send a programmer-defined string over TCP/IP. Kaleidescape also provides keypad control modules for several manufacturers that can be downloaded from the Kaleidescape website.

Note: The keypad must be able to send a programmer-defined string. Presets cannot be triggered via IR.

For more information on keypad control commands, refer to the *Kaleidescape System Control Protocol Reference Manual* at www.kaleidescape.com/go/control-protocol.

Appendix A

Product Specifications

Kaleidescape Cinema One, Model K0503

Dimensions

- ▶ 17.0 in. × 2.8 in. × 10.0 in. (W × H × D) (43.2 cm × 7.1 cm × 25.4 cm))
- ▶ 2 rack units

Weight

- ▶ 9.6 lbs

Power

- ▶ 100–240 V, 50–60 Hz, universal input
- ▶ 35 W typical (60 W max) consumption

Environment

- ▶ Operating temperature: 41°F to 95°F (5°C to 35°C) Storage temperature: -4°F to 140°F (-20°C to 60°C) Relative humidity: 20% to 80% (operating) 5% to 90% (storage)
- ▶ Maximum operating altitude: 10,000 ft (3000 m)
- ▶ Heat output: 135 BTU/hr (40W)
- ▶ Airflow: 10 CFM (17 m3/hr) min

Ventilation

- ▶ Minimum 1 in. (2.5 cm) ventilation space at the front
- ▶ Minimum 2 in. (5 cm) ventilation space at the rear

Note: Make sure rack or other doors do not reduce the 1 in. (2.5 cm) air space required at the front of the chassis.

Storage

- ▶ Integrated storage for up to 100 Blu-ray or 600 DVD-quality movies
- ▶ A second Cinema One player can be added to double the library size and enjoy a shared library on both players

Disc Media

- ▶ CD Audio, CD-R, CD-RW, DVD, DVD-R, DVD-RW, DVD+R, DVD+RW, DualDisc, BD-ROM, BD-R, BD-RE

Bandwidth

- ▶ Serves Blu-ray and DVD movies to up to 2 zones simultaneously
- ▶ 3 simultaneous imports

Network

- ▶ 100Base-TX/1000Base-T Ethernet (RJ45 connector)
- ▶ 802.11n Wi-Fi USB adapter included

Video Output

- ▶ HDMI

Audio Outputs

- ▶ HDMI
- ▶ Digital coaxial (RCA connector)
- ▶ Analog stereo (RCA connectors)

Video Modes

- ▶ 1080p60/50/24, 1080i60/50, 720p60/50, 576p, 576i, 480p, 480i
- ▶ Video processing and user interface selectable to 2.35 (CinemaScope) or 1.78:1

Audio Formats

- ▶ Bitstream pass-through of Dolby TrueHD and DTS-HD Master Audio
- ▶ Dolby Digital
- ▶ DTS Digital Surround
- ▶ MPEG Audio

Control

- ▶ Ethernet control from Crestron, AMX, Control4, Savant, the Kaleidescape App for iPad, and other apps and control systems
- ▶ Kaleidescape Remote (included)
- ▶ Kaleidescape Child Remote
- ▶ Front-panel IR receiver window
- ▶ IR input (1/8 in. mini-plug)

Certifications:

- ▶ CSA (IEC 60950-1:2001, CSA 60950-1-03)
- ▶ FCC Class B
- ▶ CE
- ▶ GOST R
- ▶ RoHS compliant

Appendix B

Notices

Compliance

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ▶ Reorient or relocate the receiving antenna
- ▶ Increase the separation between the equipment and receiver
- ▶ Connect the equipment to a different outlet or circuit than the one to which the receiver is connected
- ▶ Consult a dealer or an experienced radio/TV technician for help

Class 1 LED/Laser Notice

Class 1 LED/laser product EN 60825-1:2007 (2nd ed.)

Caution—Use of controls or adjustments or performance of procedures other than those specified in Kaleidescape documentation may result in hazardous radiation exposure. No user serviceable parts inside. Refer servicing to authorized service personnel.

CSA Certification

CSA 60950-1-07, Second Edition (Canada and the US)

CE Declaration

The KVAULT-M700, KVAULT-DV700, K0503 carry the CE mark. These products have been tested and conform to the European Union 2004/108/EC EMC directive, the 2006/95/EC Low Voltage Directive, the 2009/125/EC Ecodesign directive, and the 2011/65/EU RoHS Directive.

These products are shipped with a formal Declaration of Conformity.

WEEE Notice

In compliance with European directive 2002/96/CE and norm EN50419:2005, this device must not be thrown away with household garbage. The device must

be the object of an appropriate, selective removal procedure in order to recuperate it. Cooperation will contribute to the respect for the environment and the protection of our natural resources.

Battery Notice

Although Kaleidescape components are not user-serviceable, components may contain batteries, which must be disposed of properly. Send batteries to Kaleidescape for recycling, or take batteries to a proper battery recycling or processing center. Do not throw used batteries in the trash; batteries can explode in an incinerator. Do not replace the batteries; there is risk of explosion if a battery is replaced by an incorrect type.

Third-Party Software and Technology Licensing Information

Kaleidescape Operating System (kOS)

This product includes software that is based in part on the work of the FreeType Team. The FreeType Project homepage is at <http://www.freetype.org>.

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This product includes software that is based in part on the work of the Independent JPEG Group.

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Kaleidescape App for iPad

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JSON Framework

JSON.h, NSObject+SBJSON.h, NSObject+SBJSON.m, NSString+SBJSON.h, NSString+SBJSON.m, SBJsonBase.h, SBJson-Base.m, SBJsonParser.h, SBJsonParser.m, SBJsonWriter.h, SBJsonWriter.m

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Berkeley Sockets

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sys/socket.h

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sys/ioctl.h

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netinet/in.h

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arpa/inet.h

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